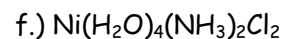
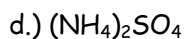
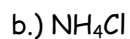
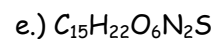
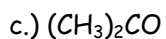
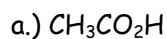


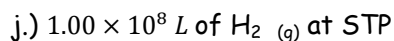
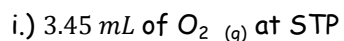
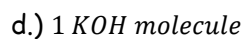
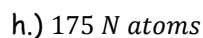
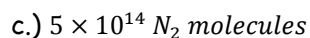
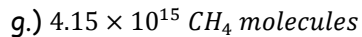
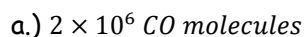
Mole Conversions

Name - _____

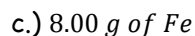
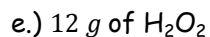
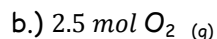
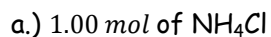
1.) How many atoms are contained in 1 molecule of each of the following?



2.) Find the mass, in grams, of each of the following.



3.) How many atoms are contained in each of the following?



g.) 40.0 g of K

j.) 8.30×10^{-4} mL of BF_3 (g) at STP

h.) 5.0 g of NaCl

k.) 6.5×10^{-6} g of Kr

i.) 125 g of CH_3Cl

l.) 9.5×10^{-3} g of NH_3

4.) What volume at STP is occupied by each of the following?

a.) 16.5 g of AsH_3 (g)

e.) 8.65×10^{21} molecules of SO_2 (g)

b.) 5.65×10^{22} molecules of POF_3 (g)

f.) 6.98×10^{15} atoms of Xe (g)

c.) 0.750 g of O_3 (g)

g.) 28.4 mg of H_2Te (g)

d.) 9.04×10^{24} atoms of He (g)

h.) 3.25 kg of C_2H_6 (g)

5.) What is the density of CO_2 (g) at STP?

6.) How many atoms of Nitrogen are there in 30.0 g of NH_4NO_3 ?



The Lone Ranger, long since retired, makes an unpleasant discovery.